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## METHOD FOR COATING PREFABRICATED CONCRETE OR REINFORCED CONCRETE MEMBERS WITH IMPERMEABLE LAYER

**Bibliographic data****Description****Claims****INPADOC legal status****Publication number:** HU173947 (B)**Publication date:** 1979-09-28**Inventor(s):** MUELLER HANS-PETER, PEHSE VOLKER, KREIS JOHANNES, SCHUMANN HELMUT**Applicant(s):** HALLE WOHNUNGSBAU**Classification:****International:** C04B41/50; C04B41/52; C04B41/65; C04B41/70; C04B41/45; C04B41/60; (IPC1-7) B32B13/04; E04B1/62**European:** C04B41/50T; C04B41/52; C04B41/65; C04B41/70**Application number:** HU1974WO00092 19740703**Priority number(s):** DD19730172026 19730703**Also published as:**

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Method for the coating of concrete or reinforced concrete finished unit elements with a wasserundurchlässigen barrier layer during the prefabrication process the invention relates to a method for the coating of concrete or precast r.c. component elements with a wasserundurchlässigen barrier layer during the prefabrication process, in particular of roof members from reinforced concrete in Vorfertigungsetäten.

It is already known, reinforced concrete components during the prefabrication process with wasserundurchlässigen barrier layers from synthetic resins or combinations of art harzschäumen with dense synthetic resin surface layer to provide. Also known bottom gravel layers or sweat and bonded loose in prefabrication centers plastic webs are to be applied on Betonelemente already tied.

These prior art methods possess however the disadvantage that the coating work can take place only after the tying process of the concrete, whereby significant effort at additional temporary storage facilities and Pertigungsraum as well as at coating devices and at particularly qualified working forces necessary becomes. Security and industrial safety-technical measures with the coating with synthetic resins, which require a significant expenditure on capital assets, represent other lacks. The concrete elements coated with synthetic resin foam must become with special effort and with cares stored and transported, since their surfaces are relative soft.

▲ top Therefore the constant quality cannot become guaranteed.

Purpose of the invention is it to create a method for the coating of concrete elements with a wasserundurchlässigen barrier layer during the prefabrication process is possible with whose assistance it to save the effort at capital outlays for the construction of temporary storage facilities and Pertigungssräumen as well as for additional security and industrial safety-technical measures the need at work stations opposite the known coating processes to lower and remachining at damaged surfaces of the finished unit elements to reduce.

The invention is the basis the object to develop a method for the coating from concrete or reinforced concrete components to which can become applied during the Pertigungsprozesses of the Pertigteilelemente before the vaporization of the Prischbetons, whereby the surface of the wasserundurchlässigen barrier layer is loadable relative high mechanical during the transport and the storage, is received with the concrete a fixed connection and exhibits an high resistance to aging.

Erfindungsgemäss becomes this object thereby dissolved by bituminous fabrics, in particular mixtures of Bitumenemulsionen, or their combinations with plastic dispersions with cement and/or other inorganic Püllstoffen during the Herstellungsprozesses of the concrete elements on these than final wasserundurchlässige Barrier layer in plastic consistency applied, densified and smoothed becomes. This wasserundurchlässige barrier layer behaves during smoothing like the fresh concrete and connects themselves to solid with the concrete surface to an homogeneous element. By the subsequent. Vaporization process accelerated itself the Zerfallvorgang of the emulsion, whereby the freed emulsion water becomes partially for the tying process the emulsion of the added cement consumed and the remainder of the water after completion of vaporizing the bottom influence of the vaporization-warm relative rapid outward discharged.

With this method the Pertigteilelement receives a smooth, waterproof barrier layer with an high resistance against mechanical influences during the temporary storage, the transport and the XContage of the concrete or precast r.c. component elements.

This wasserundurchlässige barrier layer prepared after the invention process exhibits a good Alterungsbeständigkeit, can before the vaporization of the concrete or precast r.c. components applied become, required only small effort at investments for coating in the Vorfertigungsgstätten and required no additional security and industrial safety-technical measures, since this wasserundurchlässige barrier layer is not injurious to health and flame resistant.

The invention is to become appended at an embodiment more near explained. The production of a finished unit roof slab from reinforced concrete the fresh concrete located in the form becomes densified, according to which a light frame, which corresponds to the thickness of the barrier layer, becomes fitted on the form. The mixture of the barrier layer, those preferably from a mixture of two to four parts by weight of a stable Bitumenemulsion, those for its part from an centralhard bitumen with a condensor additive of an half to five percent of a plastic dispersion, for example polyvinyl acetate, exists and two parts by weight iron portland cement 350 becomes on the still fresh Fertigteildachplat of width unit poured, coarse distributed and withdrawn over the frames. Afterwards the finished unit roof slab is vaporized and stored temporarily like an uncoated concrete or precast r.c. component, transported and mounted. ; allweise is provided the surface wasserundurch of the leave barrier layer with a reflection or a surface protective layer, for example Schiefersplitt.



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### Claims:

Methods for coating concrete or steel by means of prefabricated elements with one water-impermeable barrier layer during prefabrications of the process, characterised in that close layer, existing from a mixture of bitumen emulsion, or their combinations with Sunststoff dispersions with cement and/or inorganic filler materials, on which fresh concrete the concrete or precast r.c. component element is applied, seals and becomes smoothed, whereby itself through to closing vaporizing the wasserundurchlässige

Barrier layer and the concrete or Stahlbeton to an homogeneous element are tightly joined together,

2. Process according to claim 1, characterised in that the wasserundurchlässige barrier layer from one

Mixture of two to four parts by weight of a Bitumenemulsion to condenser-sow those from mittelhartem bitumen with one from an half to five

Percent of a Kunststoffdispersion exists and to three parts by weight a cement mixed is,

3. Process according to claim 1 and by the fact 2 gekennzeichnetes that the surface wasserundurchlässige barrier layer after its application auxiliary layer with reflection or surface protection a layer will provide.

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C04B41/45; C04B41/60; (IPC1-7): B32B13/04;  
E04B1/62****- European:** C04B41/50T; C04B41/52; C04B41/65; C04B41/70**Application number:** HU1974WO00092 19740703**Priority number(s):** DD19730172026 19730703**Also published as:**

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Cím: Eljárás előregyártott beton, vagy vasbetonelemek vízzáróréteggel történő bevonására

*Angol cim:* **METHOD FOR COATING PREFABRICATED CONCRETE OR REINFORCED CONCRETE MEMBERS WITH IMPERMEABLE LAYER**

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*Kivonat (megadási):*

Eljárás előregyártott beton- vagy vasbetonelemeknek vízzáróréteggel már az előregyártás során történő bevonására.

Lényege, hogy bitumenemulzió, vagy műanyagdiszperziókkal kombinált bitumenemulzió cementtel és/vagy ásványi eredetű töltőanyagokkal képzett keverékét közvetlenül a friss beton- vagy vasbetonelemre viszik fel, tömörítik, elsimítják, majd begőzölik, és fílymódon a beton- vagy vasbetonelemmel homogén, egységes elemet alkotó vízzáróréteget képeznek.

A nyert vízzáróréteg felülete a réteg felvitelét követően fényvisszaverő- vagy felületvédő réteggel is ellátható.

Előnye, hogy a kívánt betonfelületeken sima, vízzáró, mechanikai behatásokra kevésbé érzékeny, nagyszilárdságú záróréteg előállítását teszi lehetővé, amely a begőzölést megelőzően felvihető, így az előregyártási műveletsorozatban szervesen beilleszthető olyan eljárást képvisel, amely csupán csekély beruházási igénnyel jár.